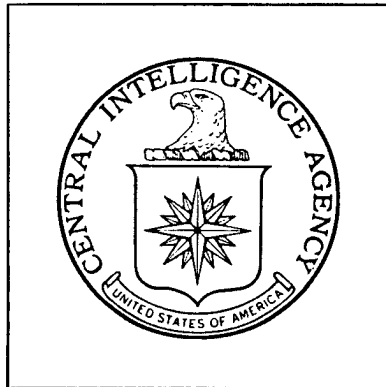


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**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

**Pyongyang Heat and
Thermal Power Plant
Pyongyang, North Korea**



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RCS 13/0053/71

DATE JUNE 1971

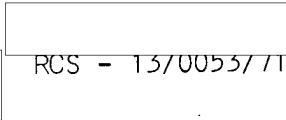
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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

INSTALLATION OR ACTIVITY NAME	COUNTRY
Pyongyang Heat and Thermal Power Plant	KN

UTM COORDINATES	GEOGRAPHIC COORDINATES
51SYD348207	39-00-25N 125-42-51E

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MAP REFERENCE
USNOO. USATC, Series 200. Sheet M0380-7HL, 4th ed, Nov 68, Scale 1:200,000
(SECRET)

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LATEST IMAGERY USED	NEGATION DATE (if required)
	NA

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ABSTRACT

Pyongyang Heat and Thermal Power Plant was first seen on photography of December 1962 when it was in the very early stage of construction. Work on the plant continued steadily until it was observed complete in August 1969. The major plant facilities include two boilerhouse sections with a total of 10 boiler units, a large generator hall, and a large switching yard with 11 main and five auxiliary transformers.

Steam seen coming from a boilerhouse section roof in January 1965 indicated that the single boiler unit completed at that time may have been operating. Since that time the plant has been seen operating on all photography through January 1971.

This report includes a photograph of the plant and a chronological summary of construction and operational status.



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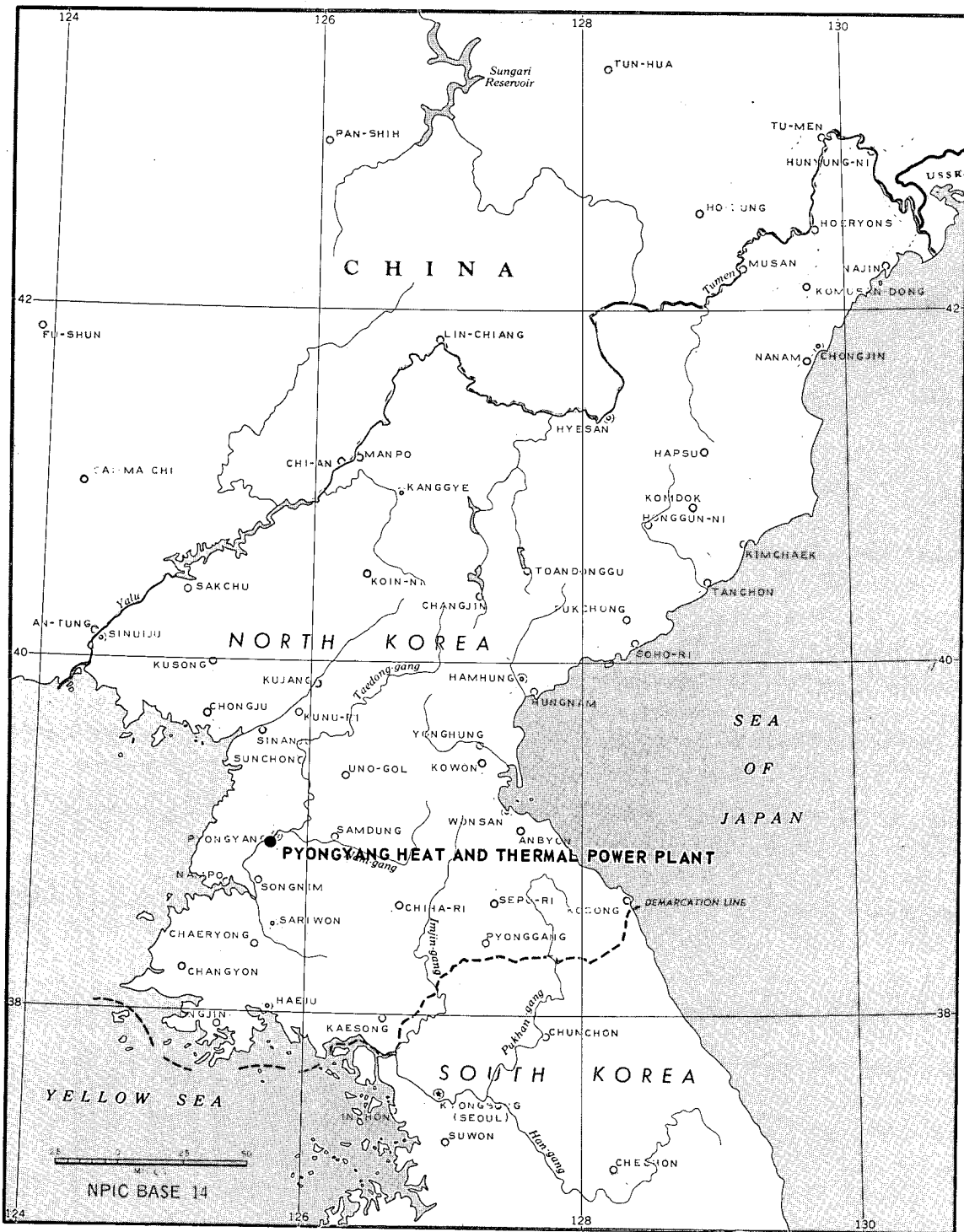


FIGURE 1. LOCATION MAP.

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INTRODUCTION

Pyongyang Heat and Thermal Power Plant is located in the southwest section of the city of Pyongyang (see Figure 1).

BASIC DESCRIPTION.

Physical Features

The plant is surrounded by a moat and occupies an area measuring approximately 2,100 by 1,600 feet. It is served by both rail and road.

Construction Chronology

The plant was in the early stage of construction when it was first seen on overhead photography in December 1962. At that time, the water pumphouse and the water treatment facility were under construction, and footings were observed for the northern boilerhouse section, the generator hall, the control house, and the switching yard. By January 1965, one boiler unit in the northern boilerhouse section, part of the generator hall, the control house, the water treatment facility, the switching yard, the coal handling facilities, and the stand-by fuel storage area appeared to be complete. Five additional boiler units were seen under construction for the first time in the northern boilerhouse section.

Between January 1965 and November 1966, the northern boilerhouse section and the coal preparation building were completed, and the generator hall had been expanded. Approximately half of the southern boilerhouse section and its associated stack were also seen externally complete on the November 1966 photography. In addition, expansion was noted at the switching yard, but it was impossible to determine the number of transformers installed in either the original or expanded sections of the yard.

On photography of February 1968, six transformers were observed in the original section of the switching yard, and four transformers were seen in the expanded section, which appeared complete. Three boiler units were observed installed and a fourth boiler unit was under construction in the southern boilerhouse section at this time. This fourth boiler unit was completed between February 1968 and August 1969. During this period, a fifth circuit was added between the generator hall and a circuit support at the southern transformer position, but no transformer could be seen. In October 1969, this transformer was seen in place, making a total of 11 main transformers observed at the plant to date (see Figure 2). With the exception of five auxiliary transformers identified on subsequent good-quality photography, no changes were observed at the plant from October 1969 to January 1971.

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Operational Status

Smoke seen coming from one of the roof vents of the northern boilerhouse section in January 1965 indicated the single completed boiler unit may have been operating. The plant was operating in November 1966. At that time, the northern boilerhouse section contained six completed boiler units. Heavy smoke coming from the northern stack indicated that any or all of these six units could have been operating. Both stacks were seen smoking on the February 1968, August and October 1969, and January 1971 photography. Any or all of the 9 completed boiler units could have been operating in February 1968, and up to ten units could have been operating on the remaining coverages.

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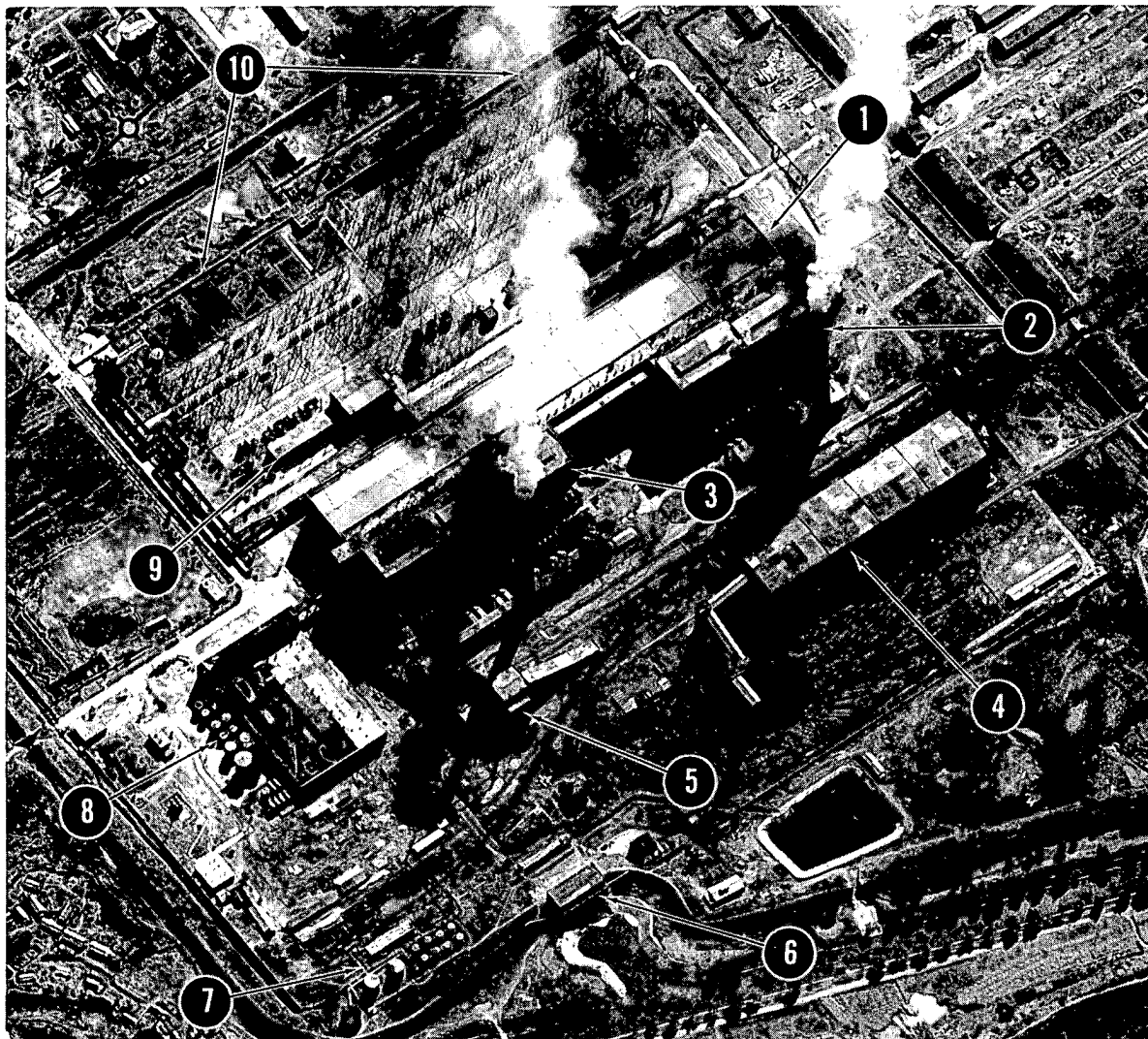


FIGURE 2. PYONGYANG HEAT AND THERMAL POWER PLANT, NORTH KOREA,

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Key to Annotations		
Item	Description	Dimensions (ft)
1	Generator hall	1025 x 115
2	Southern boilerhouse section	300 x 135
3	Northern boilerhouse section	440 x 135
4	Coal preparation building	510 x 120
5	Coal handling facility	---
6	Water pumphouse	---
7	Stand-by fuel storage	---
8	Water treatment facility	330 x 205
9	Control house	155 x 35, 100 x 60
10	Switching yard	---

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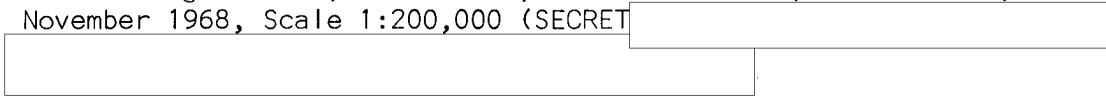
REFERENCES



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Map

USN00. US Air Target Chart, Series 200, Sheet M0380-7HL, 3rd edition,
November 1968, Scale 1:200,000 (SECRET

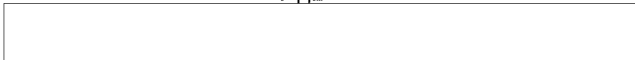


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Requirement

COMIREX N02
NPIC Support 429241

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